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Glas Coleman

**Cabot, Arkansas**  
**U.S.A.**

RVs are equipped with waste water HOLDING tanks; NOT septic tanks. Those holding tanks are nothing more than Chamber pots. Chamber pots should be cleaned and sanitized after their contents are disposed of. The Geo Method is based on this fact.

When you are camping and your RV is connected to a sewer/septic intake, leave the drain valves closed until the tank is full and ready to dump. Dumping a full tank provides a sufficient quantity of water to flush solids from the tank. Leaving the drain valves open allows the water to drain off without flushing out solid waste. That solid waste will collect in the tank(s) and cause problems over time. If your tanks are not full when you are ready to dump them, fill them with fresh water first, and then dump them.

In other words, dump the black (commode) water tank first, then dump the galley tank, then dump the bathroom tank. This way you will be flushing out the dirtiest water with progressively cleaner water.

This stuff is amazing and it works. Buy a couple of boxes of powdered water softener at the grocery store. You'll find it located with or near the laundry detergent products. I prefer Calgon Water Softener because it dissolves quickly in water. Cheaper water softeners work just as well but dissolve more slowly. Dissolve two (2) cups of the water softener in a gallon of hot water. Then, pour the solution down



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the drain into the empty tank. Use two cups of softener for each wastewater tank in your RV. The tank's drain valve should be closed otherwise the softened water will just drain out. Then use the tank(s) normally until it is full and drain it normally. Add a cup of laundry detergent to the black (commode) water tank at the same time you add water softener. This will help clean the tank. The gray water tanks should already contain soap through normal use. Water softener makes the solid waste let go from the sides of the tanks. If you've ever taken a shower in softened water you know that after rinsing the soap from your body your skin will feel slick. That's because all the soap rinses away with soft water. Softened water also prevents soap scum from sticking in the tub. Get the connection? With softened water gunk washes away instead of sticking. The same thing applies to your RV's wastewater tanks.

I use a clear plastic elbow connector to attach my sewer drain line to the wastewater outlet on my RV. It allows me to see how well things are progressing during a wastewater dump. Before I began using water softener regularly the black water tank's water was brown, the galley tank's water was brownish, and the bathroom tank's water was white. The first time I added water softener to the tanks the water coming from the black water tank was actually black (not brown) and the kitchen tank's water was also black (not brownish). The bathroom tank's water remained white. That told me that the water softener had actually done what I had intended for it to do and made solid waste, which had been stuck to the interior of the tanks, let go and drain away. I added water softener (and laundry detergent to the black tank) to all the wastewater tanks for the next few dumps to be certain all the solid waste possible had been cleaned away. The wastewater only appeared black on the initial treatment. I now add water softener and detergent to each tank once after every few dumps to maintain the system.

Too little water softener may not be of sufficient concentration to work effectively. Too much water softener will NOT hurt the tanks. So, if the amount you used didn't quite do the job, then use more the next time. Don't forget the laundry detergent.

Occasionally, I pour a half gallon of liquid bleach into each tank to deodorize, sanitize and disinfect them. I add the bleach when the tank is about half full, and then continue to use the tank normally until it is full and ready to dump. I no longer use the blue toilet chemical because it isn't necessary. I have no odors coming from my black water tank. The chlorine bleach kills the bacteria, which is primarily responsible for waste water tank odor. Generic brand liquid bleach is cheap and very effective.

## 4. USE A WATER FILTER ON YOUR FRESH WATER INTAKE LINE

Most fresh water contains sediment. Sediment will accumulate in your wastewater tanks and your fresh water lines. It also tends to discolor your sinks, tub/shower, and commode. I use the disposable type and have found that they eventually fill up and begin restricting the fresh water flow resulting in low pressure. That's how I know it's time to get a new filter. It works, it's cheap, it avoids problems, do it. When I fill my fresh water tank I attach the filter to the end of the hose and fill the tank with filtered water.

## SOME OTHER THOUGHTS

WATER, WATER, WATER - and more water! The Geo Method assumes you are hooked up to a plentiful clean water supply, and that you have access to a sewer. The water softener will make the gunk let go. That's only half the battle. After the gunk lets go it must then be flushed through the relatively small drain opening in the bottom of the tank. That takes water. Lots of water. I use a Flush King (Google it) to make rinsing more effective and faster.

CAUTION should be used when mixing chemicals. All I did when I came up with The Geo



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Method was use normal laundry products (water softener, laundry detergent, and chlorine bleach) and put them in the holding tanks which already contain water. I was NOT experimenting with chemicals. I simply applied laundry chemicals in normal combination to the waste water tanks. There are chemical products under your kitchen sink, in your laundry room, and in your garage that can injure or kill you when mixed. If you can do your laundry without harming yourself you can successfully employ The Geo Method. Don't go playing around with novel chemical combinations concocted from household products.

What was novel about The Geo Method was not in the combination of chemicals (all household laundry products intended to be used in combination) but in their application in cleaning RV waste water tanks. Common experience, if you've done laundry, tells you The Geo Method is safe. Doing laundry doesn't damage your washing machine, rot out your plumbing, or destroy waste water treatment systems. The Geo Method won't either. However, substituting other cleaning agents may not be safe.

There's nothing special or fragile about the materials used in RV plumbing. RV plumbing materials are made from the same stuff that household plumbing is made from. The problem arises in figuring out how to clean and sanitize the inaccessible interior of a holding tank. Water softener prevents gunk from adhering to the inside of the tanks, detergent removes the dirt, and chlorine bleach kills germs/odors. Soaking gives the chemicals time to work. Agitating the mix by driving down the road helps the process. Think of it this way; you can put some really nasty stuff in your washing machine, yet the inside of the washing machine doesn't get dirty. It stays clean - right? Same goes for your automatic dish washer. The same thing applies to RV holding tanks.

Those people who claim The Geo Method is somehow harmful just plain don't know what they're talking about. Their objections defy common sense and common experience. Anyone who thinks The Geo Method is harmful has a simple solution available to their simple minded concerns - don't use it. At one time, daily bathing was thought by some to be harmful to one's health, and many people argued against it advising others to remain dirty. Those who object to The Geo Method fall into the same category of enlightened thought.

Will The Geo Method work even if most of the time I'm NOT hooked up to water and sewer? YES! Just use common sense. If you dry camp ninety percent of the time just keep water softener and detergent in your tanks (especially the black tank) while you're dry camping. This will keep gunk from sticking to the tanks. When you are hooked up to sewer and water take the opportunity to fill the tanks with fresh water and flush the tanks. Keep flushing them until the water runs clear. I know it works because I've done it.

Never put regular toilet tissue in your RV's black tank. Only use toilet tissue which is approved for RV and/or septic tank use. Regular toilet tissue may eventually dissolve, but not before causing a clog in your black tank.

Occasionally traveling with partially filled wastewater tanks containing softened water and detergent promotes cleaning by agitating the water. The same goes for chlorine bleach.

I believe this process works faster and more efficiently during warm weather. However, I know it works well even during cool/cold weather.

The process works best the longer the water softener and detergent remains in the tanks. So, I don't add water softener during periods of heavy wastewater generation. I wait until I know we won't be generating wastewater quickly so that the softened water remains in the tanks for several days before dumping.

If you have an older RV you may have to use water softener and detergent several times initially to completely clean the tanks of residue.

Water softener is NOT fabric softener, nor is it the rock salt used to recharge



mechanical water softening systems.

Water softener is hard to find for a variety of reasons. Mostly it's because folks don't use it much. Most Wal-Marts I've been to stock liquid Calgon. Even though I know exactly what I'm looking for I still have a hard time spotting it on the shelf. Please don't write to me asking where to buy it. Seek and ye shall find.

Liquid water softener, liquid laundry detergent, and liquid dishwashing detergent all work too. The key points are water softener and detergent. I prefer powder because it's cheaper by volume and weighs less by volume. I have plenty of cheap water on hand to hydrate it and pitch it down the commode and drains.

I add a small amount of chlorine bleach to the fresh water tank twice a year to disinfect and sanitize it and fresh water lines. A weak chlorine bleach solution will not hurt you. However, it certainly makes the water taste bad. When we have chlorine in the fresh water system we use bottled water for drinking and cooking until the chlorine is gone - or, you can drain the system and refill it. YES, we drink the filtered water that we have in the fresh water tank. NO, it has never tasted funny or caused any problems.

Folks write to me all the time saying their tank holds X gallons, so how much detergent and water softener should I use? I don't know. How could I? It will depend on the age of the RV, how much the tanks have been used, how well they've been rinsed in the past, how often they've been allowed to dry with crud in them, etc. I'll say this; brand new rigs shouldn't need The Geo Method for several dumps (6-12, or more - maybe less). An OLD rig will likely require a lot of detergent and water softener over several applications allowing the solution to soak for a week or more. Then, you'll have to do a lot of rinsing to wash the crud out of the tank's drain. Without getting too graphic, I've helped a fellow who had never closed his black tank's drain valve. The experience of cleaning his tanks took forever and was literally nauseating - to both of us. I'll never, ever, do that again.

No, I do NOT do the ice cube thing. The Geo Method works without ice cubes. (Why not try walnuts instead? At least they won't melt within five minutes. No, I'm not serious.)

I don't believe these chemicals harm commercial septic tanks, if you think otherwise, then simply use The Geo Method only when dumping into a sewer system. Or, don't use it at all. It's your rig.

I've seen forum posts lately indicating that some RV parks are asking customers what kind of chemicals are in their waste water tanks, and in their cupboards. I find this hard to believe. It's none of their business. I feel no obligation to answer questions that the questioner has no business asking. Especially when I'll be penalized for a wrong answer. So, the correct answer that I would give is, "I don't use any chemicals at all." That should end the inquisition. If it goes beyond that it's time to take my business elsewhere. They most often need my business way more than I need their park.

My tanks are plastic and my pipes are PVC.

Don't be afraid to use your tanks. Just use common sense about their care and maintenance.

These tips are inexpensive to do. Some of them don't cost anything. You have nothing to lose in trying them and I encourage you to do so. I actually feel a certain amount of pride in the condition and cleanliness of both my waste and fresh water systems. Naturally, these tips make dumping a much more pleasant and sanitary procedure.

If you have odors in any of your water systems these procedures should eliminate them. Odors indicate a sanitary problem and degrade the enjoyment you derive from your RV.



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When my RV is parked and not in use I place stoppers in the sink and tub drains. This forces the wastewater tanks to vent through the vent pipes to the outside instead of through the drains into the RV. Water evaporates. Once the drain traps dry out during periods of non-use, nothing is there to prevent gasses (odor) from venting into the camper. Use stoppers when your RV is stored.

PS - The reason this article is so long is that people write to me and ask questions. After I've answered the same question several times I incorporate it into the body of the article for the benefit of those who might ask again in the future. On the other hand, I've noticed complaints in various forums that the article is too long. Then again, I often get mail from people asking a question that's covered in the article.

Don't fret over this. Just try it, use enough to have a chemical effect, and you'll get the knack of it over time. Now, go out into this vast continent and enjoy your RV. Tell 'em Bruni sent you!! <GRIN>

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Please consider printing this information and posting it on bulletin boards in RV parks and campgrounds you visit. Fellow RVers will benefit from your consideration.